

LISTING OF THE CLAIMS:

1. (Currently amended) A method for diagnosing, or determining a predisposition to developing, assessing a subject's risk for an arterial aortic aneurysm wall disruptive disorder in a subject, comprising:
  - perform a radiological or anatomically targeted procedure on the subject to detect a symptom indicative of arterial wall disruptive disorder;
  - perform an ophthalmological procedure on the subject to detect presence of drusen; and
  - comprising detecting one or more genotypic or phenotypic protein markers for macular degeneration in a blood, plasma, serum or urine sample from the subject, wherein whereby the subject is diagnosed to have an arterial wall disruptive disorder or a predisposition to developing an arterial wall disruptive disorder
    - the one or more protein markers are selected from the group consisting of amyloid A, amyloid P component, complement C5b-9 terminal complex, HLA-DR, complement C3, complement C5, complement C9, immunoglobulin mu chain, immunoglobulin lambda chain, immunoglobulin kappa chain, Factor X, HLA-DR, apolipoprotein E, antichymotrypsin,  $\beta$ 2 microglobulin, fibrinogen, prothrombin, thrombospondin, vitronectin, ICAM-1, LFA1, LFA3, B7, IL-1, IL-12, TNF-alpha, heat shock proteins, colony stimulating factors (GM-CSF, M-CSFs), IL-10, CD68, clusterin, S-100, heat shock protein 70, death protein, proteasome, Cu/Zn superoxide dismutase, a cathepsin protein, death adaptor protein RAIDD, factor X, CD1a, CD4, CD14, CD83, CD86, CD45, PECAM, MMP14, ubiquitin, FGF75,  $\beta$ 1 integrin, HME, BigH3, MFAP-1, MFAP-2, LTBP-4, PI-1, PI-2, thrombospondin, C reactive protein, transthyretin, SCF, FLT-3, and an autoantibody directed to a drusen-associated antigen, a retinal pigment epithelium (RPE)-associated antigen, or a retina -associated antigen or immune complex containing the autoantibody;

a difference in the level of the one or more protein markers relative to the level of the same marker(s) in a control population is an indication that the subject is at risk for an aortic aneurysm at a location other than an artery in the eye; and

the control population comprises at least one individual that does not have the aortic aneurysm and/or macular degeneration.

2. (Currently amended) The method of claim 1, wherein ~~said arterial wall disruptive disorder~~ the aortic aneurysm is selected from the group consisting of ~~of an aortic aneurysm,~~ a peripheral aneurysm, a visceral aneurysm, and an intracranial aneurysm.

3. (Currently amended) The method of claim 1, wherein ~~said arterial wall disruptive disorder~~ aortic aneurysm is a dissecting aneurysm.

4. (Currently amended) The method of claim 2, wherein ~~said aortic~~ the aortic aneurysm is an abdominal aortic aneurysm (AAA).

5. (Currently amended) The method of claim 2, wherein ~~said aortic~~ the aortic aneurysm is a thoracic aortic aneurysm (TAA).

6. (Currently amended) The method of claim 1, wherein ~~said~~ the macular degeneration is age-related macular degeneration (AMD).

7-9. (Canceled)

10. (Currently amended) The method of claim 9 1, wherein ~~said one or more markers is a drusen-associated marker~~ is selected from the group consisting of ~~immunoglobulins immunoglobulin mu chain, immunoglobulin kappa chain, immunoglobulin lambda chain, amyloid A (α1 amyloid A), amyloid P component, complement C5b-9 terminal complexes, HLA-DR, complements 3, 5 and 9, complement C3, complement C5, complement C9, complement reactive protein (CRP) C-reactive protein, immunoglobulin lambda and kappa light chains, Factor X, HLA-DR, apolipoprotein A, apolipoprotein E, antichymotrypsin, β2~~

microglobulin, fibrinogen, prothrombin, thrombospondin, ~~elastin, collagen~~, vitronectin, ICAM-1, LFA1, LFA3, B7, IL-1, ~~IL-6~~, IL-12, TNF-alpha, ~~GM-CSF~~, heat shock proteins, colony stimulating factors (GM-CSF, M-CSFs), ~~TNF $\alpha$~~ , and IL-10.

11-20. (Canceled)

21. (Currently amended) The method of claim 9 1, wherein ~~said drusen associated the one or more protein markers~~ is a genotypic protein marker selected from the group consisting of HLA-DR, CD68, vitronectin, apolipoprotein E, clusterin, ~~and~~ S-100, heat shock protein 70, death protein, proteasome, Cu/Zn superoxide dismutase, cathepsins, and death adaptor protein RAIDD.

22-67. (Canceled)

68. (New) The method of claim 1, wherein the one or more protein markers are selected from the group consisting of amyloid A, amyloid P component, complement C5b-9 terminal complex, HLA-DR, complement C3, complement C5, complement C9, Factor X, HLA-DR, apolipoprotein E, antichymotrypsin,  $\beta$ 2 microglobulin, fibrinogen, prothrombin, thrombospondin, vitronectin, ICAM-1, LFA1, LFA3, B7, heat shock proteins, colony stimulating factors (GM-CSF, M-CSFs), CD68, clusterin, S-100, heat shock protein 70, death protein, proteasome, Cu/Zn superoxide dismutase, death adaptor protein RAIDD, factor X, CD1a, CD4, CD14, CD83, CD86, CD45, PECAM, MMP14, ubiquitin, FGF75, HME, BigH3, MFAP-1, MFAP-2, LTBP-4, PI-1, PI-2, thrombospondin, C reactive protein, transthyretin, SCF, and FLT-3.

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69. (New) The method of claim 1, wherein detecting comprises detecting the one or more protein markers by immunohistochemical staining, Western blot analysis and ELISA.

70. (New) The method of claim 1, wherein the one or more proteins are drusen-associated molecules and are selected from the group consisting of amyloid A protein,

amyloid P component, antichymotrypsin, apolipoprotein E,  $\beta$ 2 microglobulin, complement 3, complement C5, complement C5b-9 terminal complexes, factor X, fibrinogen, immunoglobulin kappa chain, immunoglobulin lambda chain, prothrombin, thrombospondin and vitronectin.

71. (New) The method of claim 1, wherein the one or more protein markers are associated with dysfunctional retinal pigment epithelium cells and are selected from the group consisting of HLA-DR, CD68, vitronectin, apolipoprotein E, clusterin and S-100.

72. (New) The method of claim 1, wherein the one or more protein markers are associated with cell death and are selected from the group consisting of death protein, heat shock protein 70, proteasome, Cu/Zn superoxide dismutase, cathepsins, and death adaptor protein.

73. (New) The method of claim 1, wherein the one or more protein markers are associated with dendritic cells and are selected from the group consisting of CD1a, CD4, CD14, CD68, CD83, CD86 and CD45.

74. (New) The method of claim 1, wherein the one or more protein markers are associated with drusen-associated dendritic cell cores and are selected from the group consisting of PECAM, MMP14, ubiquitin and FGF.

75. (New) The method of claim 1, wherein the one or more protein markers are cytokines and are selected from the group consisting of IL-1, IL-12, TNF-alpha and colony stimulating factor GM-CSF.

76. (New) The method of claim 1, wherein detecting comprises detecting an increase in  $\beta$ 1 integrin and/or HME levels relative to the control population.

77. (New) The method of claim 1, wherein detecting comprises detecting a decrease in BigH3, MFAP-1, MFAP-2, LTBP-4, PI-1 and/or PI-2 levels relative to those in the control population.

78. (New) The method of claim 1, wherein the one or more protein markers is and auto-antibody specific for a protein in drusen, an RPE antigen, or a retinal antigen.

79. (New) The method of claim 1, wherein the one or more protein markers is a protein involved in dendritic cell maturation and proliferation and is selected from the group consisting of CM-CSF, IL-4, IL-3, SCF, FLT-3 and TNF- $\alpha$ .

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Amend